PAGE

05/12



IN THE CLAIMS

This listing of claims replaces all prior versions and listings of the claims in the abovereferenced application.

- 1. (Original) A light emitting device comprising:
- a light emitting diode;
- a submount;

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- a phosphor material disposed around at least a portion of said light emitting diode; and an underfill between a first surface of the light emitting diode and a first surface of the submount, wherein the underfill has characteristics to reduce contamination of the light emitting diode by the phosphor material.
- 2. (Original) The light emitting device of claim 1, wherein the light emitting diode has a reflective layer.
- 3. (Original) The light emitting device of claim 2, wherein the reflective layer comprises silver.
- 4. (Original) The light emitting device of claim 1, wherein the submount comprises a silicon substrate.
- 5. (Original) The light emitting device of claim 1, wherein the phosphor material comprises a material selected from a group consisting of strontium thiogallate, calcium thiogallate, strontium sulfide, and any combination thereof.
- 6. (Original) The light emitting device of claim 1, wherein the phosphor material comprises a sulfur compound.
- 7. (Currently Amended) The light emitting device of claim 1, wherein the phosphor material is included in a phosphor formulation, the phosphor formulation further [comprises] comprising a gettering compound, the gettering compound comprising a gettering ion and a counter-ion, said gettering ion comprising a material selected from a group

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consisting of Group VA elements, Group VB elements, Group IVA elements, organic ligands, and any combination thereof.

- (Original) The light emitting device of claim 1, wherein the underfill comprises a material selected from a group consisting of cyanate ester resin, epoxy resin, epoxy, urethane, acrylate, and any combination thereof.
- 9. (Original) The light emitting device of claim 1, wherein the underfill comprises a filler.
- (Original) The light emitting device of claim 9, wherein the filler comprises a 10. material selected from a group consisting of silicon dioxide, furned silica, titanium dioxide, inorganic silicates, inorganic clays, inert metals, metal oxides, and any combination thereof
 - 11. (Original) The light emitting device of claim 9, wherein the filler is reflective.
- 12. (Original) The light emitting device of claim 1, wherein the underfill comprises a gettering compound, the gettering compound comprising a gettering ion and a counter-ion, said gettering ion comprising a material selected from a group consisting of Group VA elements, Group VB elements, Group VIB clements, Group WA elements, organic ligands, and any combination thereof.
- (Original) The light emitting device of claim 12, wherein the underfill further 13. comprises fumed silica.
- (Original) The light emitting device of claim 12, wherein the gettering ion 14. comprises a material selected from a group consisting of chromium, molybdenum, tungsten, vanadium, niobium, tantalum, bismuth, hathium, lead, and any combination thereof.
- (Original) The light emitting device of claim 12, wherein the gettering ion and 15. a sulfide ion form a compound with a solubility product less than about 10-30.

16-21. (Withdrawn).

(New) The light emitting device of claim 12, wherein the counter-ion is one of 22.

GROUP ILL SUITE 125

PAGE 07/12



sulfate and citrate.

- 23. (New) The light emitting device of claim 7, wherein the gettering compound comprises about one to about ten weight percent of the phosphor formulation.
- 24. (New) The light emitting device of claim 1, wherein the light emitting diode is mounted on the submount.
- 25. (New) The light emitting device of claim 1, further comprising a coating comprising a gettering compound, the gettering compound comprising a gettering ion and a counter-ion, the coating being disposed between the light emitting diode and the phosphor material.
- 26. (New) The light emitting device of claim 25 wherein the coating comprises a carrier selected from the group of two part curable silicon, epoxy, and acrylic.
 - 27. (New) A structure comprising:
 - a semiconductor light emitting device;
 - a submount;
- a material containing a phosphor disposed around at least a portion of semiconductor light emitting device; and

an underfill disposed in at least a portion of a space between the semiconductor light emitting diode and the submount such that the underfill forms a physical barrier that prevents the phosphor-containing material from occupying the space.

- 28. (New) The structure of claim 27, wherein the underfill comprises a material selected from a group consisting of cyanate ester resin, epoxy resin, epoxy, urethane, acrylate, and any combination thereof.
 - 29. (New) The structure of claim 27, wherein the underfill comprises a filler.
- 30. (New) The structure of claim 29, wherein the filler comprises a material selected from a group consisting of silicon dioxide, fumed silica, titanium dioxide, inorganic

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silicates, inorganic clays, inert metals, metal oxides, and any combination thereof

- 31. (New) The structure of claim 29, wherein the filler is reflective.
- 32. (New) The structure of claim 27, wherein the underfill comprises a gettering compound, the gettering compound comprising a gettering ion and a counter-ion.
- 33. (New) The structure of claim 27 wherein the underfill completely fills the space between the semiconductor light emitting device and the submount.
 - 34. (New) A structure comprising:
 - a semiconductor light emitting device;
- a material containing a phosphor disposed around at least a portion of semiconductor light emitting device; and
- a gettering compound comprising a gettering ion and a counter-ion, the gettering compound positioned to prevent the phosphor-containing material from contaminating the semiconductor light emitting device.
- 35. (New) The structure of claim 34 wherein the gettering compound is included in a coating disposed between the phosphor-containing material and the semiconductor light emitting device.
- (New) The structure of claim 34 wherein the gettering compound is included in the material.
- 37. (New) The structure of claim 34 wherein the semiconductor light emitting device is mounted on a submount, and the gettering compound is included in an underfill disposed between the semiconductor light emitting device and the submount.
- 38. (New) The structure of claim 34 wherein the gettering ion comprises a material selected from a group consisting of Group VA elements, Group VB elements, Group VIB elements, Group IVA elements, organic ligands, and any combination thereof.
 - 39. (New) The structure of claim 34, wherein the counter-ion is one of sulfate and



citrate.

- 40. (New) The structure of claim 34, wherein the semiconductor light emitting device includes a contact comprising silver.
- 41. (New) The structure of claim 34, wherein the phosphor comprises a material selected from a group consisting of strontium thiogallate, calcium thiogallate, strontium sulfide, and any combination thereof.
- 42. (New) The structure of claim 34, wherein the phosphor comprises a sulfur compound.
- 43. (New) The structure of claim 34, wherein the gettering ion comprises a material selected from a group consisting of chromium, molybdenum, tungsten, vanadium, niobium, tantalum, bismuth, hathium, lead, and any combination thereof.
- 44. (New) The structure of claim 34, wherein the phosphor comprises a sulfide ion, and wherein the gettering ion and the sulfide ion form a compound with a solubility product less than about 10⁻³⁰.

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